To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

Send any inquiries to http://www.renesas.com/inquiry.

Notice

1. All information included in this document is current as of the date this document is issued. Such information, however, is subject to change without any prior notice. Before purchasing or using any Renesas Electronics products listed herein, please confirm the latest product information with a Renesas Electronics sales office. Also, please pay regular and careful attention to additional and different information to be disclosed by Renesas Electronics such as that disclosed through our website.
2. Renesas Electronics does not assume any liability for infringement of patents, copyrights, or other intellectual property rights of third parties by or arising from the use of Renesas Electronics products or technical information described in this document. No license, express, implied or otherwise, is granted hereby under any patents, copyrights or other intellectual property rights of Renesas Electronics or others.
3. You should not alter, modify, copy, or otherwise misappropriate any Renesas Electronics product, whether in whole or in part.
4. Descriptions of circuits, software and other related information in this document are provided only to illustrate the operation of semiconductor products and application examples. You are fully responsible for the incorporation of these circuits, software, and information in the design of your equipment. Renesas Electronics assumes no responsibility for any losses incurred by you or third parties arising from the use of these circuits, software, or information.
5. When exporting the products or technology described in this document, you should comply with the applicable export control laws and regulations and follow the procedures required by such laws and regulations. You should not use Renesas Electronics products or the technology described in this document for any purpose relating to military applications or use by the military, including but not limited to the development of weapons of mass destruction. Renesas Electronics products and technology may not be used for or incorporated into any products or systems whose manufacture, use, or sale is prohibited under any applicable domestic or foreign laws or regulations.
6. Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.
7. Renesas Electronics products are classified according to the following three quality grades: "Standard", "High Quality", and "Specific". The recommended applications for each Renesas Electronics product depends on the product's quality grade, as indicated below. You must check the quality grade of each Renesas Electronics product before using it in a particular application. You may not use any Renesas Electronics product for any application categorized as "Specific" without the prior written consent of Renesas Electronics. Further, you may not use any Renesas Electronics product for any application for which it is not intended without the prior written consent of Renesas Electronics. Renesas Electronics shall not be in any way liable for any damages or losses incurred by you or third parties arising from the use of any Renesas Electronics product for an application categorized as "Specific" or for which the product is not intended where you have failed to obtain the prior written consent of Renesas Electronics. The quality grade of each Renesas Electronics product is "Standard" unless otherwise expressly specified in a Renesas Electronics data sheets or data books, etc.

   "Standard": Computers; office equipment; communications equipment; test and measurement equipment; audio and visual equipment; home electronic appliances; machine tools; personal electronic equipment; and industrial robots.

   "High Quality": Transportation equipment (automobiles, trains, ships, etc.); traffic control systems; anti-disaster systems; anti-crime systems; safety equipment; and medical equipment not specifically designed for life support.

   "Specific": Aircraft; aerospace equipment; submersible repeaters; nuclear reactor control systems; medical equipment or systems for life support (e.g. artificial life support devices or systems), surgical implantations, or healthcare intervention (e.g. excision, etc.), and any other applications or purposes that pose a direct threat to human life.
8. You should use the Renesas Electronics products described in this document within the range specified by Renesas Electronics, especially with respect to the maximum rating, operating supply voltage range, movement power voltage range, heat radiation characteristics, installation and other product characteristics. Renesas Electronics shall have no liability for malfunctions or damages arising out of the use of Renesas Electronics products beyond such specified ranges.
9. Although Renesas Electronics endeavors to improve the quality and reliability of its products, semiconductor products have specific characteristics such as the occurrence of failure at a certain rate and malfunctions under certain use conditions. Further, Renesas Electronics products are not subject to radiation resistance design. Please be sure to implement safety measures to guard them against the possibility of physical injury, and injury or damage caused by fire in the event of the failure of a Renesas Electronics product, such as safety design for hardware and software including but not limited to redundancy, fire control and malfunction prevention, appropriate treatment for aging degradation or any other appropriate measures. Because the evaluation of microcomputer software alone is very difficult, please evaluate the safety of the final products or system manufactured by you.
10. Please contact a Renesas Electronics sales office for details as to environmental matters such as the environmental compatibility of each Renesas Electronics product. Please use Renesas Electronics products in compliance with all applicable laws and regulations that regulate the inclusion or use of controlled substances, including without limitation, the EU RoHS Directive. Renesas Electronics assumes no liability for damages or losses occurring as a result of your noncompliance with applicable laws and regulations.
11. This document may not be reproduced or duplicated, in any form, in whole or in part, without prior written consent of Renesas Electronics.
12. Please contact a Renesas Electronics sales office if you have any questions regarding the information contained in this document or Renesas Electronics products, or if you have any other inquiries.

(Note 1) "Renesas Electronics" as used in this document means Renesas Electronics Corporation and also includes its majority-owned subsidiaries.

(Note 2) "Renesas Electronics product(s)" means any product developed or manufactured by or for Renesas Electronics.

Rev.3.00
Sep. 01, 2007
REJ10J0869-0300

M3062PT2-EPB Supplementary Document

Read This Before Using the M3062PT2-EPB

Renesas Solutions Corp.
Microcomputer Tool Development Department

Thank you for purchasing the M3062PT2-EPB emulation probe for the M16C/62P Group. Before using this product, please read the following precautions.

1. Using the M3T-PD30F

This documents describes the required firmware file and MCU file setting for using this product with the M3T-PD30F.
Required firmware and MCU files are as follows.

- Firmware file: M30620F.S (V1.06.00 or later)
- MCU file: M16C62P_512.mcu

These firmware and MCU files are not included with the M3T-PD30F V.2.20 Release 1. (Because these files are included with the latest version of M16C R8C PC7501 Emulator Debugger, followings steps are not necessary.)
This documents describes how to store the firmware file and MCU file when using the M3T-PD30F. Please use the M3062PT2-EPB after storing these files.

1. Copying Firmware and MCU Files

Before you start storing files, install the emulator debugger M3T-PD30F.
After installing the M3T-PD30F, store the firmware and MCU files as follows.

(1) Download the latest firmware file “M30620F.S” and MCU file “M16C62P_512.mcu” from the following URL.
http://www.tool.rso.renesas.com/tn/eng/toolnews/download/m16c62p.htm
(2) Store the firmware file “M30620F.S” to the directory where the pd30f.exe is installed (If you have installed the M3T-PD30F by default, store the firmware file to “c:\mtool\pd30f”).
(3) Store the MCU file “M16C62P_512.mcu” to “mcufiles” folder where the MCU file is stored (If you have installed the M3T-PD30F by default, store the firmware to “c:\mtool\pd30f\mcufiles”).

2. Downloading Firmware

It is necessary to download the firmware in the cases listed below. Normally, the following are automatically detected when the M3T-PD30F is started up, and the firmware is downloaded.

- When you use this product for the first time
- When the firmware has been upgraded
- When you use this product with a PC7501 which was used with another emulation probe before

If downloading firmware is not completed in the cases below, redownload the firmware after starting the emulator in maintenance mode following the procedures (1) to (4).
- When the power is unexpectedly shut down during a download from the emulator debugger
- When a communications interface cable is unexpectedly pulled out
The user system must not be connected when you download the firmware.

(1) Set the interface select switch on the rear panel of the PC7501 to the LPT side and connect the LPT parallel interface cable to the PC7501 and the host machine.
(2) Within 2 seconds of activating power to the emulator, press the system reset switch on the PC7501 front panel to start maintenance mode.
(3) When the emulator is switched to maintenance mode, the System Status SAFE LED begins to flash.
(4) Start up the M3T-PD30F. When settings in the Init dialog box are complete, the dialog which urges to download the firmware will appear. Download firmware following messages. Required time for downloading the firmware is about 60 seconds.

For details, see “2.7 Downloading Firmware” on page 27 of the M3062PT2-EPB User’s Manual.

3. Self-check

To confirm the emulation probe operate properly, after downloading the firmware file, execute the self-check.

(1) If the user system is connected, disconnect it.
(2) Within 2 seconds of activating power to the emulator, press the system reset switch on the emulator front panel to switch the emulator to maintenance mode.
(3) Check the "SAFE" LED starts flashing and then press the system reset switch again.
(4) The self-check will start. If the normal result is displayed in about 30 seconds, the self-check terminated normally.

For details, see “2.8 Self-check” on page 28 of the M3062PT2-EPB User’s Manual.

2. Note on Input Level for KI0# to KI3#

With this product, the KI0# to KI3# are TTL input level using the port emulation FPGA although these are the CMOS Schmidt input level with the actual MCU. Therefore, the wrong interrupt may occur near the threshold of the TTL level (2.0V to 0.8V) when the input signal is slow changing.

3. ALE signal

When the internal RAM, ROM or SFR area of the MCU is accessed during user program execution, with the actual MCU, ALE output is fixed to Low, while this product outputs ALE signal.

4. Inquiries

For technical information on this product, fill in the text file which is downloaded from the following URL, then send the information to your local distributor.
http://tool-support.renesas.com/eng/toolnews/registration/support.txt